

Customer Needs

ID	Category	Description	Priority
1	Activity	Primary product function must be to educate students of EMEM-543 on electrical filters, including low, high, and band pass filters	1
2	Activity	Product must provide audio processing activities via interaction with analog electrical hardware that demonstrate the impact of design decisions on system performance	1
3	Activity	Product must provide interactive image processing activities conducted via Matlab/Simulink software	1
4	Activity	Product must provide sensory feedback that demonstrates phase shift	1
5	Activity	Product data acquisition must be conducted via Labview	3
6	Activity	Product must be engaging to students	2
7	Support	Product must include full documentation, including a preliminary lab activities manual, full bill of materials, wiring schematics, and service manuals	1
8	Support	Product hardware must be inexpensive and easily replaceable	1
9	Support	Product hardware must be easy to store, maintain, and repair	1
10	Environment	Product must be designed for execution in the System Dynamics studio classroom (GLE-2120)	3
11	Environment	Product must be designed for use during instruction (class) time	2
12	Environment	Product must be safe for all users	1